



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/760,271

01/21/2004

Kia Silverbrook

RRA25US

1032

24011 7590 01/23/2007  
SILVERBROOK RESEARCH PTY LTD  
393 DARLING STREET  
BALMAIN, NSW 2041  
AUSTRALIA

EXAMINER

UHLENHAKE, JASON S

ART UNIT

PAPER NUMBER

2853

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
--	-----------	---------------

3 MONTHS

01/23/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

# Office Action Summary

Application No.

10/760,271

Applicant(s)

SILVERBROOK, KIA

Examiner

Jason Uhlenhake

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 15 November 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schalk et al (U.S. Pat. 6,749,298) in view of Ando et al (U.S. Pat. 6,631,963)

#### ***Schalk et al discloses:***

- ***regarding claim 1***, a number of mechanisms auxiliary to cartridge including a print media transport assembly and printhead capper drive assembly; a single motor; a transmission assembly coupling the single motor to each of the number of mechanisms (Column 3, Lines 38-50) (wiping, capping, media transport assembly, pick assembly, feed assembly), such that upon receiving the printer cartridge, the cradle and printer cartridge form an inkjet cradle (32) (Column 1, Lines 45 – 60; Column 3, Lines 1 – 17, 54-58; Column 4, Lines 15 – 30)
- a printhead capper drive assembly being configured to operatively engage with a capper assembly of the printer cartridge (inkjet printhead assembly) upon removable engagement of the printer cartridge with the cradle (Column 2, Lines 47-57; Column 4, Lines 31-39)

#### ***Schalk et al does not disclose expressly:***

- **regarding claim 1**, an inkjet printer cartridge of a type including a pagewidth printhead

***Ando et al discloses:***

- **regarding claim 1**, inkjet printer cartridge of a type including a page-width printhead (120) (Figure 1; Column 4; Lines 59 – 67; Column 5, Lines 1 – 11), for the purpose of improving printing speed of the apparatus.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Ando et al into the device of Schalk et al, for the purpose of improving the printing speed of the apparatus

Claim 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schalk et al (U.S. Pat. 6,749,298) as modified by Ando et al (U.S. Pat. 6,631,963) and Menendez et al (U.S. Pat. 6,027,209) as applied to claim 1 above, and further in view of Horikoshi et al (U.S. Pat. 4,832,918).

***Schalk et al as modified by Ando et al and Menendez et al discloses:***

- **regarding claim 2**, wherein the number of mechanisms include a print media transport assembly (Figure 1; Column 2, Lines 29 – 38)

***Schalk et al as modified by Ando et al does not disclose expressly:***

- **regarding claim 2**, wherein the number of mechanisms include an air compressor
- **regarding claim 3**, wherein the transmission assembly includes a direct drive coupling between the compressor and the spindle/shaft of the motor

***Horikoshi et al discloses:***

- ***regarding claim 2***, wherein the number of mechanisms include an air compressor (Column 2, Lines 12 – 16; 1 of Figure 1), for the purpose of producing air used to remove particles from the printing apparatus.
- ***regarding claim 3***, wherein the transmission assembly includes a direct drive coupling between the compressor (1) and the spindle (8, motor shaft) of the motor (4) (Figure 1), for the purpose of operating the air compressor by the single motor.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of number of mechanisms include an air compressor; the transmission assembly includes a direct drive coupling between the compressor and the spindle of the motor as taught by Horikoshi et al into the device of Schalk et al as modified by Ando et al and Menendez et al, for the purpose of producing air used to remove particles from the printing apparatus and operating the air compressor by a single motor.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schalk et al (U.S. Pat. 6,749,298) as modified by Ando et al (U.S. Pat. 6,631,963) and Menendez et al (U.S. Pat. 6,027,209) as applied to claim 1 above, and further in view of Hansen et al (U.S. Pat. 4,719,474)

***Schalk et al as modified by Ando et al and Menendez et al disclose all of the above limitation except for the following:***

- **regarding claim 4**, a worm gear extended from a spindle of the motor and meshed with a cog of the print media transport assembly and a cog of the printhead capper drive assembly

***Hansen et al discloses:***

- **regarding claim 4**, a worm gear extended from a spindle of the motor (94, Figures 2, 3) and meshed with a cog of the print media transport assembly (Figure 9; Column 5, Lines 49 – 60), for the purpose of transporting media through the transport assembly of the printing apparatus.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of a worm gear extended from a spindle of the motor and meshed with a cog of the print media transport assembly and a cog of the printhead capper drive assembly as taught by Hansen into the device of Schalk et al as modified by Ando et al and Menendez et al, for the purpose of transporting media through the transport assembly of the printing apparatus and control multiple mechanisms of the apparatus.

***Response to Arguments***

Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection. Please see the above rejection regarding Schalk et al (U.S. Pat. 6,749,298) in view of Ando et al (U.S. Pat. 6,631,963).

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Art Unit: 2853

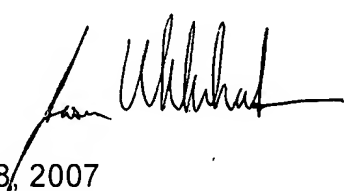
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Uhlenhake whose telephone number is (571) 272-5916. The examiner can normally be reached on Monday - Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JSU

January 8, 2007



STEPHEN MEIER  
SUPERVISORY PATENT EXAMINER